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1998 Silvicultural Activities Report

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1998 Silvicultural Activities Report

Compiled from the 1998 Landowner Reports

*Data collected under the provisions of
Title 12 MRSA §8885*

July 15, 1999



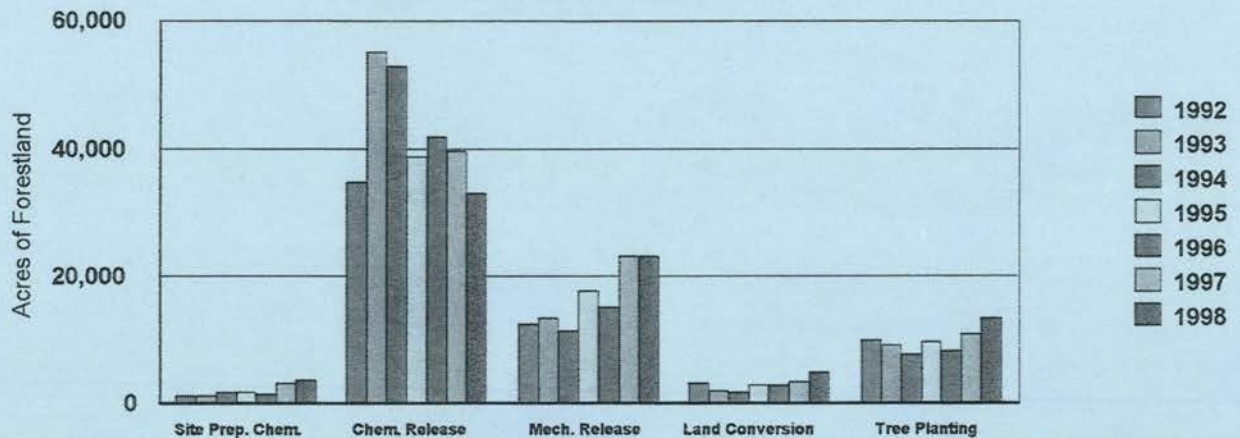
Maine Forest Service
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1998 Report on Silvicultural and Harvesting Practices

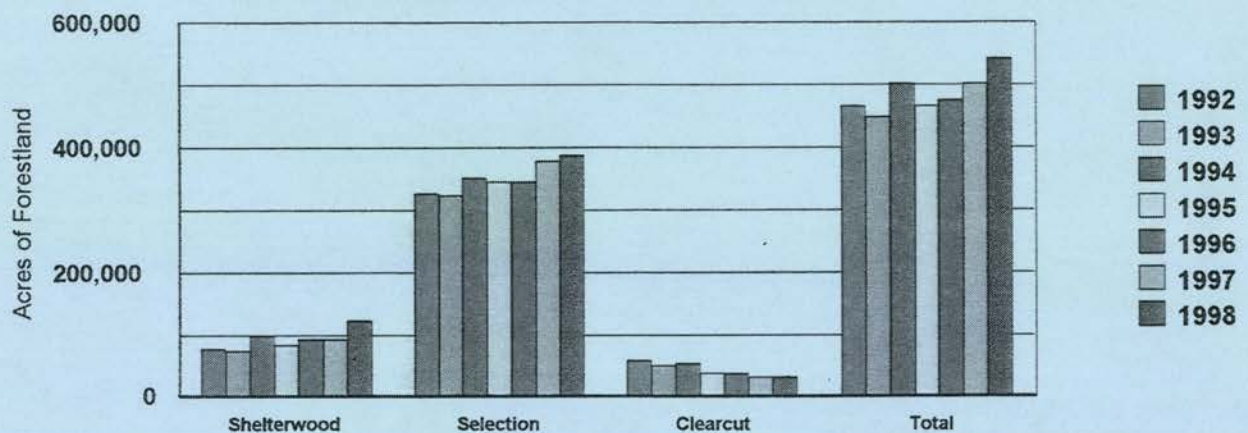
	1998				1997 (Corrected)	
	Ownership Acreage class			Total	Total	%change
	1-1000	1001-5000	5000+	1998	1997	1997-1998
Forestland Ownership: Number of Landowner Reports						
Forest Industry	18	19	445	482	466	3%
Private	5,954	239	366	6,559	5,146	27%
Other	47	9	55	111	100	11%
Total	6,019	267	866	7,152	5,712	25%
Pre-Commercial Activities (acres)						
Timber Stand Improvement (TSI)						
TSI Mechanical	6,543	96	16,413	23,052	23,113	-0.3%
Herbicide Treatments						
Site Preparation	203	0	3,738	3,941	3,264	21%
Release	135	0	33,070	33,205	39,716	-16%
Total	338	0	36,808	37,146	42,980	-14%
	0.91%	0.00%	99.09%	100%		
Tree Planting						
(AS REPORTED ON LANDOWNER REPORTS ONLY)	3,355	85	10,185	13,625	10,830	26%
Land Use Conversion						
Change to other use	4,254	426	233	4,913	3,567	38%
Harvesting Activities (acres)						
Partial Cut Methods						
Shelterwood cuts	15,290	1,969	106,905	124,164	94,374	32%
Selection or Partial cuts	169,393	22,892	194,912	387,197	385,026	1%
Total Acres	184,683	24,861	301,817	511,361	479,400	7%
	36%	5%	59%	100%		
Clearcutting Methods						
Total acres	3,741	896	26,302	30,939	31,024	-0.3%
	12%	3%	85%	100%		
Total Harvest, by acres						
Total Acres	188,424	25,757	328,119	542,300	510,424	6%
	35%	5%	61%	100%		
Distribution of partial and clearcut, by percentage						
Partial cut methods	98%	97%	92%	94%	94%	
Clearcut methods	2%	3%	8%	6%	6%	
Total	100%	100%	100%	100%	100%	
Forester Supervision (acres)						
Amount of total harvest with Forester involved	58,444	15,291	310,272	384,007	373,893	
% Forester supervision	31%	59%	95%	71%	73%	

Silvicultural Trends 1998 Silvicultural Report



	Site Prep. Chem.	Chem. Release	Mech. Release	Land Conversion	Tree Planting
1992	1,342	34,962	12,636	3,296	10,109
1993	1,340	55,385	13,385	2,201	9,382
1994	1,950	52,939	11,651	1,944	7,825
1995	1,880	38,926	17,826	2,967	9,695
1996	1,443	41,977	15,109	3,058	8,325
1997	3,264	39,716	23,082	3,457	10,830
1998	3,941	33,205	23,052	4,913	13,625

Harvesting Trends 1998 Silvicultural Report



	Shelterwood	Selection	Clearcut	Total
1992	78,888	328,488	59,602	466,978
1993	75,267	323,476	51,253	449,996
1994	97,654	353,176	53,762	504,592
1995	82,914	345,423	39,295	467,632
1996	93,905	345,880	37,509	477,294
1997	94,049	379,463	30,945	504,457
1998	124,164	387,197	30,939	542,300

1998 Silvicultural Activities Report

The information contained in this report represents forest management activities that occurred between January 1 and December 31, 1998 according to forest *landowner reports* filed with the Maine Forest Service (MFS) for 1998.

All landowners who conduct a timber harvesting operation must file a *Forest Operations Notification of intent to harvest forest products, construct land management roads, and/or establish water crossings* before beginning the operation. Following receipt of the notification each landowner is sent a form on which to report their management activities.

Activities in the forest affect everyone. These activities supply resources to build homes, provide furniture, supply paper products, provide wildlife habitat and recreation, reduce fire danger, improve aesthetics, and protect valuable soils and clean water.

Highlights

- ☐ The total area harvested increased by 6%, from 510,424 acres in 1997 to 542,300 acres in 1998. The total area clearcut decreased by .3% while partial cuts increased by 7%.
- ☐ The use of herbicides to release competing vegetation decreased from 39,716 acres (in 1997) to 33,205 acres (in 1998) – a decrease of 16%. Herbicide used for site preparation increased by 21% to 3,941 acres.
- ☐ Mechanical thinning – using saws – decreased slightly from 23,113 to 23,052 acres.
- ☐ Land Use Conversion, changing from forest management to some other primary land use, increased 38% to 4,913 acres.
- ☐ Tree planting as reported here, is only from those owners who filed a landowner report. Plantings done on locations where the landowner harvested no wood are not required to be reported.

Notes & Definitions

☐ Forestland Ownership

- ♦ **Forest industry.** Land owned by a forest products industry; usually most of the wood harvested is used by that industry.
- ♦ **Private.** Private ownership but NOT by a forest industry. This includes lands of other industries that are not forest industries.
- ♦ **Other.** Lands owned by a government entity -- municipal, county, or state, quasi-public lands, etc.

- ☐ **Timber Stand Improvement.** Timber Stand Improvement (TSI) - "TSI" is pre-commercial thinning or weeding of young stands to improve the growing conditions for the residual crop. In a TSI procedure there are no, or very few, commercial forest products harvested. This report shows the number of acres thinned or weeded using mechanical means (saws, axes, etc.).
- ☐ **Change of (land) Use** Change of land use for a particular area means that following timber harvesting the subsequent use does not include growing *forest products*. Such change of use includes but is not limited to the following: farm pasture, site for growing agricultural crops, residential dwelling unit, development site. The division of forestland into smaller units does not constitute a change of land use.
- ☐ **Forest products** means logs, pulpwood, veneer, boltwood, wood chips, stud wood, poles, pilings, biomass fuelwood, fuelwood or other products commonly known as forest products, but does not include Christmas trees, maple syrup, nursery products used for ornamental purposes, wreaths, bough material, cones or other seed crops.
- ☐ **Types of harvest**
 - ♦ **Partial harvest.** All harvest systems except clearcut harvest.
 - **Selection system.** A selection cutting system is a method where trees are removed individually or in small groups from a harvest site. Diameter limit harvests (all trees above a certain diameter are harvested) are recorded on this line also.
 - **Shelterwood system.** A shelterwood cutting system is a method of harvesting mature timber from a forest site in two or more stages. The first stage removes only a portion of the trees to allow establishment of regeneration before the remaining trees are removed in subsequent harvests.
 - ♦ **Clearcut harvest.** Clear-cut means any timber harvesting on a forested site greater than 5 acres in size which, over a 10 year, period results in an average residual basal area of trees over 6 inches in diameter of less than 30 square feet per acre, unless one or both of the following conditions exist: A. If, after harvesting, the average residual basal area of trees over 1 inch in diameter measured at 4.5 feet above the ground is 30 square feet per acre or more, a clear-cut does not occur until the average residual basal area of trees 6 inches or larger measured at 4.5 feet above the ground is less than 10 square feet per acre; or B. After harvesting, the site has a well-distributed stand of trees at least 5 feet in height, that meets the regeneration standards applicable under 12 MRSA, c. 805, §8869, subsection 1.